

INTERNATIONAL SEARCH REPORT

Int nal Application No
PCT/EP2004/012699

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D207/46 C07D211/94 C07D405/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 810 548 A (OREAL) 28 December 2001 (2001-12-28) cited in the application claims 1,5,9	1-19
A	FR 2 802 425 A (OREAL) 22 June 2001 (2001-06-22) cited in the application claims 1,7	1-19
A	WO 01/70688 A (GERMANN TIENO ; ZIMMER OSWALD (DE); FROSCH STEFANIE (DE); GRUENENTHAL) 27 September 2001 (2001-09-27) page 6 page 7, lines 20-30	1-14
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

15/02/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Seitner, I

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012699

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 511 600 A (KURARAY CO) 4 November 1992 (1992-11-04) claims 1,21</p>	1-19

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/012699

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1 and 2 (partially)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1 and 2 (partially)

Present claims 1 and 2 relate to the use of compounds defined by reference to a desirable characteristic or property, namely "capable of cleaving the diketone crosslinking bonds between two proteins".

The claims cover the use of all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

For these reasons it appears impossible to execute a meaningful search and/or to issue a complete search report over the whole breadth of the above mentioned claims 1 and 2.

The search and the report for those claims can only be considered complete for the use of compounds according to the formula (I) of claim 3.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/012699

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2810548	A	28-12-2001	FR 2810548 A1	28-12-2001
			CA 2351215 A1	26-12-2001
			EP 1166768 A1	02-01-2002
			JP 2002037724 A	06-02-2002
			US 2002042438 A1	11-04-2002
FR 2802425	A	22-06-2001	FR 2802425 A1	22-06-2001
			AU 2525401 A	03-07-2001
			CA 2395283 A1	28-06-2001
			EP 1242045 A2	25-09-2002
			WO 0145648 A2	28-06-2001
			JP 2004505007 T	19-02-2004
			US 2003138393 A1	24-07-2003
WO 0170688	A	27-09-2001	DE 10013499 A1	27-09-2001
			AU 5219601 A	03-10-2001
			WO 0170688 A2	27-09-2001
EP 0511600	A	04-11-1992	AT 177743 T	15-04-1999
			DE 69228627 D1	22-04-1999
			DE 69228627 T2	21-10-1999
			EP 0511600 A2	04-11-1992
			JP 3021954 B2	15-03-2000
			JP 5140099 A	08-06-1993
			KR 9503921 B1	20-04-1995
			US 5414089 A	09-05-1995
			US RE36359 E	26-10-1999
			US 5336782 A	09-08-1994